

Data Accessing Method

Abstract of the Disclosure

5 A method for accessing data from a storage medium according to requirements of a host is disclosed. The storage medium stores a plurality of data blocks that each one of them further includes a plurality of data sectors and an error correction code used for recovering errors of the data block. Each one of the data sectors further includes an error detection code
10 used for detecting correctness of associated data sector. When a data block is verified to include at least one incorrect data sectors by means of the error detection codes, those correct data sectors rather than all the data sectors are stored into a specific position of a data buffer. The whole data block is next re-fetched and stored into the same position of the data buffer used to
15 occupied by the data block, those stored correct data sectors are then re-fetched to overwrite corresponding ones in the data buffer. Thereafter, the incorrect data sectors are re-detected to verify their correctness again. Not only those correct data sectors will be faultless protected, but also upgrade data access performance.